## Claim Amendments

This listing of claims will replace all prior versions and listings of claims in the application:

## **Listing of Claims**

- 1. (Original) An apparatus for dry forming an absorbent core composite comprising:
  - a rotatable drum having a substantially cylindrical surface;
- a vacuum surface comprising one or more holes disposed substantially circumferentially around at least a portion of the substantially cylindrical surface;
- a vacuum chamber, disposed within the rotatable drum, having one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface;
- a first casing sheet supply mechanism for supplying a first casing sheet to overlie the vacuum surface at a first location;
- a fibrous material supply mechanism for supplying fibrous material to overlie the first casing supply at a second location;
- a particulate matter supply mechanism for depositing particulate matter onto the fibrous material at a third location; and
- a second casing sheet supply mechanism for supplying a second casing sheet to overlie the first casing sheet, the fibrous material and the particulate matter at a fourth location, thereby forming an absorbent core composite.
- 2. (Original) The apparatus of claim 1, wherein the particulate matter comprises superabsorbent particles.

- 3. (Original) The apparatus of claim 1, wherein the fibrous material comprises cellulose acetate tow.
- 4. (Original) The apparatus of claim 1, wherein the first casing sheet and second casing sheet comprise tissue.
- 5. (Original) The apparatus of claim 1, wherein at least one of the first casing sheet and second casing sheet is liquid-pervious.
- 6. (Original) The apparatus of claim 5, wherein one of the first casing sheet and second casing sheet is a liquid-pervious topsheet and the other of the first casing sheet and second casing supply is a liquid-impervious backsheet.
- 7. (Original) The apparatus of claim 1, wherein the vacuum surface has a width of about 1.75 inches to about 12 inches.
- 8. (Original) The apparatus of claim 1, wherein the vacuum surface has a width of about 2.75 inches to about 10 inches.
- 9. (Original) The apparatus of claim 1, wherein the vacuum surface has a width of about 3.75 inches.
- 10. (Original) The apparatus of claim 1, wherein the vacuum surface is about 0.20 inches narrower than the fibrous material.
- 11. (Original) The apparatus of claim 1, wherein the vacuum surface is recessed.
- 12. (Original) The apparatus of claim 11, wherein the vacuum surface is recessed by less than about 0.10 inches.
- 13. (Original) The apparatus of claim 11, wherein the vacuum surface is recessed by about 0.030 inches.
- 14. (Original) The apparatus of claim 1, wherein a vacuum in the vacuum chamber is about 2.5 inches of water to about 20 inches of water.

- 15. (Original) The apparatus of claim 1, wherein a vacuum in the vacuum chamber is about 3.75 inches of water to about 12.5 inches of water.
- 16. (Original) The apparatus of claim 1, wherein a vacuum in the vacuum chamber is about 5.0 inches of water.
- 17. (Original) The apparatus of claim 1, wherein the rotatable drum has a diameter of about 6 inches to about 28 inches.
- 18. (Original) The apparatus of claim 1, wherein the rotatable drum has a diameter of about 9 inches to about 20 inches.
- 19. (Original) The apparatus of claim 1, wherein the rotatable drum has a diameter of about 12 inches.
- 20. (Original) The apparatus of claim 1, wherein the vacuum zone defines an arc subadjacent the a portion of the vacuum surface having a leading edge and a trailing edge.
- 21. (Original) The apparatus of claim 20, wherein the leading edge and trailing edge are spaced apart from one another, relative to a rotating axis of the rotatable drum, by about 45 degrees to about 180 degrees.
- 22. (Original) The apparatus of claim 20, wherein the leading edge and trailing edge are spaced apart from one another, relative to a rotating axis of the rotatable drum, by about 90 degrees to about 160 degrees.
- 23. (Original) The apparatus of claim 20, wherein the leading edge and trailing edge are spaced apart from one another, relative to a rotating axis of the rotatable drum, by about 140 degrees.
- 24. (Original) The apparatus of claim 1, wherein a vacuum in the vacuum chamber pulls the particulate matter into a relatively homogeneous distribution within the supply of fibrous material.

- 25. (Original) The apparatus of claim 1, wherein the vacuum surface comprises one or more regions having a relatively large amount of open space and a vacuum in the vacuum chamber pulls the particulate matter into zones of relatively high concentration corresponding to the one or more regions having a relatively large amount of open space.
- 26. (Original) The apparatus of claim 25, wherein the zones of relatively high concentration of particulate matter provide zoned absorbency in a garment manufactured to include a portion of the core composite.
- 27. (Original) The apparatus of claim 1, wherein the vacuum surface comprises one or more mesh screens.
- 28. (Original) The apparatus of claim 1, wherein the vacuum surface comprises one or more foraminous plates.
- 29. (Original) The apparatus of claim 1, wherein the vacuum surface comprises holes having a diameter of about 0.0625 inches to about 0.75 inches that are spaced from one another by a center-to-center distance of about 0.10 inches to about 1.00 inch.
- 30. (Original) The apparatus of claim 1, wherein the vacuum surface comprises holes having a diameter of about 0.125 inches to about 0.625 inches that are spaced from one another by a center-to-center distance of about 0.20 inches to about 1.00 inch.
- 31. (Original) The apparatus of claim 1, wherein the vacuum surface comprises holes having a diameter of about 0.25 inches to about 0.50 inches that are spaced from one another by a center-to-center distance of about 0.30 inches to about 1.00 inch.
- 32. (Original) The apparatus of claim 1, further comprising a lay on roll located proximal to the fourth location to press the second casing sheet against the first casing sheet.

- 33. (Original) The apparatus of claim 1, wherein at least one of the first casing sheet and second casing sheet is coated with adhesive prior contacting the rotatable drum.
- 34. (Original) The apparatus of claim 1, wherein the third location is positioned between the second location and the fourth location.
- 35. (Original) The apparatus of claim 1, wherein the third location is not positioned between the second location and the fourth location.
- 36. (Original) The apparatus of claim 1, further comprising:
  a landing surface disposed on either side of the vacuum surface, and
  wherein at least one of the first casing sheet and second casing sheet is wider
  than the vacuum surface.
- 37. (Original) An apparatus for dry forming a core composite comprising:

  a rotatable combining drum having a vacuum surface comprising one or more holes disposed substantially circumferentially around at least a portion of the combining drum;

a vacuum chamber, disposed within the rotatable drum, having one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface;

a first casing sheet supply mechanism for supplying a first casing sheet to overlie the vacuum surface at a first location;

a tow forming jet disposed adjacent the rotatable combining drum for supplying opened tow to overlie the first casing sheet at a second location, the opened tow exiting the tow forming jet at a tow break angle;

a vibratory feeder disposed adjacent the rotatable combining drum for depositing particulate matter onto the opened tow at a third location; and a second casing sheet supply mechanism for supplying a second casing sheet to overlie the first casing sheet, the opened tow and the particulate matter at a fourth location, thereby forming an absorbent core composite.

- 38. (Original) The apparatus of claim 37, wherein the particulate matter comprises superabsorbent particles.
- 39. (Original) The apparatus of claim 37, wherein the opened tow comprises cellulose acetate tow.
- 40. (Original) The apparatus of claim 37, wherein the first casing sheet and second casing sheet comprise tissue.
- 41. (Original) The apparatus of claim 37, wherein the tow forming jet is adjustable to change the tow break angle.
- 42. (Original) The apparatus of claim 41, wherein the basis weight of the opened tow may be increased by decreasing the tow break angle and decreased by increasing the tow break angle.
- 43. (Original) The apparatus of claim 37, further comprising a lay on roll located proximal to the fourth location to press the second casing sheet against the first casing sheet.
- 44. (Original) An apparatus for dry forming a core composite comprising: a rotatable drum having a substantially cylindrical surface;
- a vacuum surface comprising one or more holes disposed substantially circumferentially around at least a part of the substantially cylindrical surface;
- a vacuum chamber, disposed within the rotatable drum, having one or more vacuum passages forming a vacuum zone subadjacent at least a portion of the vacuum surface;

a first casing sheet supply mechanism for supplying a first casing sheet to overlie the vacuum surface at a first location;

a fibrous material supply mechanism for supplying fibrous material to overlie the first casing supply at a second location;

a particulate matter supply mechanism for depositing superabsorbent particles onto the fibrous material at a third location; and

a second casing sheet supply mechanism for supplying a second casing sheet to overlie the first casing sheet, the fibrous material and the particulate matter at a fourth location, thereby forming an absorbent core composite having first and second casing sheets on either side of a mixture of superabsorbent particles and fibrous material;

wherein the mixture of superabsorbent particles and fibrous material contains at least about 30% by weight superabsorbent particles.

- 45. (Original) The apparatus of claim 44, wherein the supply of fibrous material comprises a supply of cellulose acetate tow.
- 46. (Original) The apparatus of claim 44, wherein the mixture of superabsorbent particles and fibrous material contains from about 30% by weight to about 95% by weight superabsorbent particles.
- 47. (Original) The apparatus of claim 44, wherein the mixture of superabsorbent particles and fibrous material contains from about 60% by weight to about 90% by weight superabsorbent particles.
- 48. (Original) The apparatus of claim 44, wherein the mixture of superabsorbent particles and fibrous material contains from about 75% by weight to about 85% by weight superabsorbent particles.

Claims 49 - 62 (Cancelled).